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JANUARY 1977

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Constitutive Equations in Viscoplasticity: Phenomenological and Physical Aspects AMD-Vol. 21
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Cavitation and Polyphase Flow Forum—1976
Centrifugal Compressor and Pump Stability, Stall and Surge
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ASME Guide for Gas Transmission and Distribution Piping Systems—1976
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Limit Analysis Using Finite Elements
1975 Rail Transportation Proceedings
Symposium on Railroad Equipment Dynamics
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Research Needs Report: Energy Conversion Research
1976 National Waste Processing Conference Proceedings—From Waste to Resource Through Processing (with Supplement)
1976 Proceedings of the Fourth Intersociety Conference on Transportation Companies Holding Certificates of Authorization for Use of Code Symbol Stamps—1976 Edition (with Supplement)
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The technical programs of the meetings of the Society and of its Professional Divisions have been published in **MECHANICAL ENGINEERING** and may be located by consulting the index on page SR-31. Many of these papers will be published in **MECHANICAL ENGINEERING** or the *Transactions* and may be located by reference to the indexes of these publications. A free, up-to-date edition of the ASME Technical Papers Catalog is available on request.

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- A17.1-1971 Elevators, Dumbwaiters, Escalators and Moving Walks (With Supplements a to f), Book No. A00047, L-\$18.00, M-\$14.40
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- A17.1c-1974 Supplement only, Book No. A00074, L-\$2.25, M-\$1.80
- A17.1d-1e-1f-1975 Supplements only, Book No. A00080, L-\$3.00, M-\$2.40
- A17 Guide Evacuation of Passengers from Stalled Elevators (Not an ANSI Standard), Book No. A00070, L-\$2.25, M-\$1.80
- A17.1-1973 Inspectors' Manual—American National Standard Practice for the Inspection of Elevators, Escalators and Moving Walks, Book No. A00049, L-\$10.00, M-\$8.00
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- A40.8-1055 National Plumbing Code (Withdrawn by ANSI), Book No. L00010, L-\$6.75, M-\$5.40
- A90.1-1976 Safety Standard for Manlifts, Book No. B00098, L-\$4.50, M-\$3.60
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- B1.5-1973 Acme Screw Threads, Book No. N00027, L-\$6.75, M-\$5.40
- B1.7-1965 (R1972) Nomenclature, Definitions and Letter Symbols for Screw Threads, Book No. L00011, L-\$3.25, M-\$2.60
- B1.8-1973 Stub Acme Screw Threads, Book No. N00028, L-\$4.50, M-\$3.60

- B1.9-1973 Buttress Inch Screw Threads 7 $\frac{1}{2}$ /45° Form With 0.6 Pitch Basic Height of Thread Engagement, Book No. N00029, L-\$5.00, M-\$4.00
 B1.10-1958 Unified Miniature Screw Threads, Book No. N00025, L-\$3.00, M-\$2.40
 B1.11-1958 (R1972) Microscope Objective Thread, Book No. N00020, L-\$2.25, M-\$1.80
 B1.12-1972 Class 5 Interference—Fit Thread, Book No. N00032, L-\$2.75, M-\$2.20
 B1.16-1972 American Gaging Practice for Metric Screw Threads, Book No. N00026, L-\$5.00, M-\$4.00
 B2.1-1968 Pipe Threads (Except Dryseal), Book No. L00018, L-\$5.50, M-\$4.40
 B2.2-1968 Dryseal Pipe Threads, Book No. M00036, L-\$5.50, M-\$4.40
 B2.4-1966 (R 1974) Hose Coupling Screw Threads, Book No. K00014, L-\$3.25, M-\$2.60
 B4.1-1967 (R1974) Preferred Limits and Fits for Cylindrical Parts, Book No. L00022, L-\$4.00, M-\$3.20

Machine Tools

- B5.1-1975 T-Slots, Their Bolts, Nuts and Tongues, Book No. M00024, L-\$3.00, M-\$2.40
 B5.5-1959 (R1972) Rotating Air Cylinders and Adapters, Book No. L00031, L-\$2.25, M-\$1.80
 B5.8-1972 Chucks and Chuck Jaws, Book No. J00024, L-\$4.50, M-\$3.60
 B5.9-1967 (R1972) Spindle Noses for Tool Room Lathes, Engine Lathes, Turret Lathes and Automatic Lathes, Book No. M00010, L-\$4.00, M-\$3.20
 B5.10-1963 (R1972) Machine Tapers, Book No. L00004, L-\$4.00, M-\$3.20
 B5.11-1964 (R1973) Spindle Noses and Adjustable Adapters for Multiple Spindle Drilling Heads, Book No. M00008, L-\$2.25, M-\$1.80
 B5.16-1952 (R1972) Accuracy of Engine and Tool Room Lathes, Book No. J00004, L-\$2.25, M-\$1.80
 B5.18-1972 Spindle Noses and Tool Shanks for Milling Machines, Book No. M00009, L-\$3.50, M-\$2.80
 B5.20-1958 Machine Pins, Book No. L00003, L-\$2.25, M-\$1.80
 B5.25-1968 (R1975) Die Sets, Book No. L00027, L-\$3.50, M-\$2.80
 B5.28-1971 Mounting Dimensions of Lubricating and Coolant Pumps for Machine Tools, Book No. L00009, L-\$2.75, M-\$2.20
 B5.32-1953 Designation and Working Ranges of Grinding Machines, Book No. J00028, L-\$2.25, M-\$1.80
 B5.33-1970 External Cylindrical Grinding Machines—Plain, Book No. M00038, L-\$2.75, M-\$2.20
 B5.35-1969 (R1975) Machine Mounting Specifications for Abrasive Discs and Plate Mounted Wheels, Book No. M00035, L-\$3.50, M-\$2.80
 B5.37-1970 External Cylindrical Grinding Machines—Centerless, Book No. M00039, L-\$2.25, M-\$1.80
 B5.40-1968 Spindle Noses and Tool Shanks for Horizontal Boring Machines, Book No. M00048, L-\$3.50, M-\$2.80
 B5.41-1968 (R1973) Quill Flanges and Spindle Ends for Upright and Horizontal Drill Spindles for Production Type Drilling Machines, Book No. K00018, L-\$2.25, M-\$1.80
 B5.42-1970 External Cylindrical Grinding Machines—Universal, Book No. M00040, L-\$2.50, M-\$2.00
 B5.43-1971 Modular Machine Tool Standards, Book No. M00021, L-\$3.50, M-\$2.80
 B5.44-1971 Rotary Table Surface Grinding Machines, Book No. M00061, L-\$3.50, M-\$2.80
 B5.45-1972 Milling Machines, Book No. M00067, L-\$2.75, M-\$2.20
 B5.46-1972 Symbols for Machine Tool Indicator Plates, Book No. M00065, L-\$4.50, M-\$3.60
 B5.47-1972 Milling Machine Arbor Assemblies, Book No. M00074, L-\$3.50, M-\$2.80

Gears & Power Transmission Safety

- B6.1-1968 (R1974) Tooth Proportions for Coarse-Pitch Involute Spur Gears, Book No. M00011, L-\$4.00, M-\$3.20
 B6.7-1967 (R1974) Tooth Proportions for Fine-Pitch Involute Spur and Helical Gears, Book No. M00026, L-\$5.00, M-\$4.00
 B6.9-1956 (R1962) Design for Fine-Pitch Wormgearing, Book No. J00026, L-\$2.25, M-\$1.80
 B6.12-1964 (R 1974) Nomenclature of Gear-Tooth Wear and Failure, Book No. L00012, L-\$4.00, M-\$3.20
 B6.13-1965 (R 1974) System for Straight Bevel Gears, Book No. M00020, L-\$4.00, M-\$3.20
 B15.2-1972 Safety Standard for Mechanical Power Transmission Apparatus, Book No. M00009, L-\$4.00, M-\$3.20

Pipe Flanges, Fittings, Gaskets & Valves

- B16.1-1975 Cast Iron Pipe Flanges and Flanged Fittings—Class 25, 125, 250 and 800, Book No. J00017, L-\$6.00, M-\$4.80
 B16.3-1971 Malleable-Iron Threaded Fittings, 150 and 300 lb., Book No. L00005, L-\$4.00, M-\$3.20
 B16.4-1971 Cast Iron Threaded Fittings, 125 and 250 lb., Book No. J00022, L-\$3.50, M-\$2.80
 B16.5-1973 Steel Pipe Flanges, Flanged Valves and Fittings (Including Ratings for Class 150, 300, 400, 600, 900, 1500 and 2500), Book No. M00015, L-\$12.00, M-\$9.60
 B16.9-1971 Factory-Made Wrought Steel Butt-Welding Fittings, Book No. M00014, L-\$4.00, M-\$3.20
 B16.10-1973 Face-to-Face and End-to-End Dimensions of Ferrous Valves, Book No. J00031, L-\$4.00, M-\$3.20

- B16.11-1973 Forged Steel Fittings, Socket-Welding and Threaded, Book No. M00016, L-\$3.00, M-\$2.40
 B16.12-1971 Cast-Iron Threaded Drainage Fittings, Book No. J00021, L-\$3.50, M-\$2.80
 B16.14-1971 Ferrous Pipe Plugs, Bushings and Locknuts with Pipe Threads, Book No. J00032, L-\$3.50, M-\$2.80
 B16.15-1971 Cast Bronze Threaded Fittings, 125 and 250 lb., Book No. J00010, L-\$3.50, M-\$2.80
 B16.18-1972 Cast Bronze Solder Joint Pressure Fittings, Book No. J00015, L-\$3.50, M-\$2.80
 B16.20-1973 Ring-Joint Gaskets and Grooves for Steel Pipe Flanges, Book No. L00030, L-\$4.50, M-\$3.60
 B16.21-1962 Nonmetallic Gaskets for Pipe Flanges, Book No. L00015, L-\$3.00, M-\$2.40
 B16.22-1973 Wrought Copper and Bronze Solder-Joint Pressure Fittings, Book No. M00030, L-\$3.50, M-\$2.80
 B16.23-1976 Cast Copper Alloy Solder Joint Drainage Fittings - DWV, Book No. J00014, L-\$15.00, M-\$12.00
 B16.24-1971 Bronze Flanges and Flanged Fittings, 150 and 300 lb., Book No. J00009, L-\$3.50, M-\$2.80
 B16.25-1972 Buttwelding Ends, Book No. J00013, L-\$4.00, M-\$3.20
 B16.26-1975 Cast Copper Alloy Fittings for Flared Copper Tubes, Book No. J00008, L-\$3.00, M-\$2.40
 B16.28-1964 (R1972) Wrought Steel Buttwelding Short Radius Elbows and Returns, Book No. M00053, L-\$4.00, M-\$3.20
 B16.29-1973 Wrought Copper and Wrought Copper Alloy Solder-Joint Drainage Fittings, Book No. N00057, L-\$4.00, M-\$3.20
 B16.31-1971 Non-Ferrous Pipe Flanges, 150, 300, 400, 600, 900, 1503 and 2500 lb., Book No. J00042, L-\$4.00, M-\$3.20
 B16.32-1973 Cast Bronze Solder - Joint Fittings for Solvent Drainage Systems, Book No. J00044, L-\$3.50, M-\$2.80
 B16.33-1973 Small Manually Operated Metallic Gas Valves in Gas Distribution Systems Whose Maximum Allowable Operating Pressure Does Not Exceed 60 PSIG or 125 PSIG, Book No. J00006, L-\$4.00, M-\$3.20
 B16.34-1973 Steel Butt-Welding End Valves, Book No. J00018, L-\$10.50, M-\$8.40
 B16.36-1975 Steel Orifice Flanges, Class 300, 600, 900, 1500 and 2500, Book No. J00046, L-\$4.00, M-\$3.20

Fasteners & Keys

- B17.1-1967 (R1973) Keys and Keyseats, Book No. J00038, L-\$2.75, M-\$2.20
 B17.2-1967 (R1972) Woodruff Keys and Keyseats, Book No. J00037, L-\$2.75, M-\$2.20
 B18.1.1-1972 Small Solid Rivets, Book No. M00006, L-\$3.50, M-\$2.80
 B18.1.2-1972 Large Rivets, Book No. K00023, L-\$2.75, M-\$2.20
 B18.2.1-1972 Square and Hex Bolts and Screws, Book No. M00044, L-\$4.50, M-\$3.80
 B18.2.2-1972 Square and Hex Nuts, Book No. M00043, L-\$4.50, M-\$3.80
 B18.3-1969 Socket Cap, Shoulder and Set Screws, Book No. M00007, L-\$5.00, M-\$4.00
 B18.5-1971 Round Head Bolts, Book No. L00032, L-\$3.25, M-\$2.60
 B18.6.1-1972 Wood Screws, Book No. M0005, L-\$4.00, M-\$3.20
 B18.6.2-1972 Slotted Head Cap Screws, Square Head Set Screws and Slotted Headless Set Screws, Book No. K00012, L-\$4.00, M-\$3.20
 B18.6.3-1972 Machine Screws and Machine Screw Nuts, Book No. M00004, L-\$9.50, M-\$7.60
 B18.6.4-1966 (R1975) Slotted and Recessed Head Tapping Screws and Metallic Drive Screws, Book No. N00021, L-\$6.00, M-\$4.80
 B19.7-1972 General Purpose Semi-Tubular Rivets, Full Tubular Rivets, Split Rivets and Rivet Caps, Book No. N00059, L-\$3.50, M-\$2.80
 B18.8.1-1972 Clevis Pins and Cotter Pins, Book No. L00021, L-\$2.75, M-\$2.20
 B18.9-1958 (R1971) Plow Bolts, Book No. L00021, L-\$2.75, M-\$2.20
 B18.10-1963 (R1975) Track Bolts and Nuts, Book No. M00025, L-\$2.75, M-\$2.20
 B18.11-1961 (R1975) Miniature Screws, Book No. K00037, L-\$2.75, M-\$2.20
 B18.12-1962 (R1975) Glossary of Terms for Mechanical Fasteners, Book No. M00046, L-\$6.50, M-\$5.20
 B18.13-1965 (R1975) Screw and Washer Assemblies—Sems, Book No. N00043, L-\$3.50, M-\$2.80
 B18.15-1969 Forged Eyebolts, Book No. M00037, L-\$3.50, M-\$2.80
 B18.17-1968 (R1975) Wing Nuts, Thumb Screws and Wing Screws, Book No. J00005, L-\$3.50, M-\$2.80
 B18.21.1-1972 Lock Washers, Book No. L00002, L-\$3.50, M-\$2.80
 B18.22.1-1965 (R 1975) Plain Washers (Redesignation of B27.2-1965), Book No. L00019, L-\$2.75, M-\$2.20
 B18.23.1-1967 (R 1975) Beveled Washers (Redesignation of B27.4-1967), Book No. L00006, L-\$2.25, M-\$1.80

Transmission Chains, Washers, Conveyors & Compressors

- B19.3-1972 Safety Standard for Compressors for Process Industries, Book No. B00003, L-\$3.50, M-\$2.80
 B20.1-1976 Safety Standards for Conveyors and Related Equipment, Book No. B00005, L-\$4.00, M-\$3.20
 B27.5-1969 General Purpose Rectangular Uniform Section Retaining Rings, Book No. L00023, L-\$2.75, M-\$2.20
 B27.6-1972 General Purpose Uniform Cross Section Spiral Retaining Rings, Book No. L00037, L-\$5.00, M-\$4.00
 B29.1-1975 Precision Power Transmission Roller Chains Attachments and Sprockets, Book No. M00050, L-\$7.50, M-\$6.00
 B29.2-1957 (R 1971) Inverted Tooth (Silent) Chains and Sprocket Teeth, Book No. M00002, L-\$3.50, M-\$2.80

- B29.3-1954 (R 1974) Double-Pitch Power Transmission Roller Chains and Sprockets, Book No. K00075, L-\$4.00, M-\$3.20
 B29.4-1972 Double-Pitch Conveyor Roller Chains, Attachments, and Sprockets, Book No. M00072, L-\$4.25, M-\$3.40
 B29.6-1972 Steel Detachable Link Chains, Attachments and Sprockets, Book No. M00066, L-\$5.50, M-\$4.40
 B29.7-1971 Malleable Iron Detachable Link Chain and Attachments, Book No. M00018, L-\$4.50, M-\$3.60
 B29.8-1958 (R 1971) Leaf Chain, Book No. M00003, L-\$3.50, M-\$2.80
 B29.9-1958 (R 1974) Small Pitch Silent Chains and Sprocket Tooth Form Less Than 3/8" Pitch, Book No. K00077, L-\$2.75, M-\$2.20
 B29.10-1972 Heavy Duty Offset Sidebar Power Transmission Roller Chains and Sprocket Teeth, Book No. M00078, L-\$5.00, M-\$4.00
 B29.11-1974 Combination Chains, Attachments and Sprocket Teeth, Book No. K00081, L-\$5.50, M-\$4.40
 B29.12-1974 Steel Bushed Rollerless Chains, Attachments and Sprocket Teeth, Book No. K00030, L-\$3.50, M-\$2.80
 B29.13-1972 700 Class Pintle Chains, Attachments and Sprocket Teeth, Book No. M00064, L-\$3.50, M-\$2.80
 B29.14-1971 "H" Type Mill Chains—Attachments and Sprocket Teeth, Book No. M00062, L-\$3.50, M-\$2.80
 B29.15-1973 Heavy Duty Roller Type Conveyor Chains and Sprocket Teeth, Book No. M00079, L-\$3.50, M-\$2.80
 B29.16-1974 Welded Steel Type Mill Chains, Attachments, and Sprocket Teeth, Book No. K00079, L-\$4.50, M-\$3.60
 B29.17-1974 Hinge Type Flat Top Conveyor Chains and Sprocket Teeth, Book No. K00078, L-\$3.50, M-\$2.80
 B29.18-1974 Welded Steel-Type Drag Chains, Attachments, and Sprocket Teeth, Book No. K00080, L-\$3.50, M-\$2.80
 B29.19-1976 A and CA550 and 620 Roller Chains, Attachments, and Sprockets, Book No. K00085, L-\$4.50, M-\$3.60

Cranes, Derricks, Hoists, Jacks & Slings

- B30.1-1975 Jacks, Book No. B00007, L-\$4.00, M-\$3.20
 B30.2-1976 Overhead and Gantry Cranes (Top Running Bridge, Multiple Girder), Book No. B00011, L-\$6.00, M-\$4.80
 B30.3-1975 Hammerhead Tower Cranes, Book No. J00033, L-\$4.50, M-\$3.60
 B30.4-1973 Portal, Tower and Pillar Cranes, Book No. J00001, L-\$4.50, M-\$3.60
 B30.5-1968 Crawler, Locomotive and Truck Cranes, Book No. B00012, L-\$4.00, M-\$3.20
 B30.6-1969 Derricks, Book No. B00013, L-\$3.25, M-\$2.60
 B30.7-1971 Base Mounted Drum Hoists, Book No. B00002, L-\$3.50, M-\$2.80
 B30.8-1971 Floating Cranes and Floating Derricks, Book No. J00023, L-\$4.50, M-\$3.60
 B30.9-1971 Slings, Book No. B00010, L-\$5.00, M-\$4.00
 B30.10-1975 Hooks, Book No. J00048, L-\$4.00, M-\$3.20
 B30.11-1973 Monorail Systems and Underhung Cranes, Book No. B00015, L-\$4.00, M-\$3.20
 B30.12-1975 Handling Loads Suspended from Rotorcraft, Book No. J00047, L-\$5.50, M-\$4.40
 B30.15-1973 Mobile Hydraulic Cranes, Book No. B00017, L-\$5.50, M-\$4.40
 B30.16-1973 Overhead Hoists, Book No. B00001, L-\$4.50, M-\$3.60

Piping

Code for Pressure Piping, B31 Interpretations: All current codes, Book No. M00035, L-\$13.00, M-\$10.40. Three Year Subscription Service, L-\$18.00, M-\$14.40

Set forth the conditions under which new materials may be used, the Committee's interpretations of code provisions to which they apply to specific construction problems of code users, and special provisions to cover conditions encountered in nuclear installations. Individual Cases (Book No. M00034) are available at \$1.50, ASME members \$1.20. Please specify individual Case number.

- B31.1-1973 Power Piping (with Addenda up to the 1977 edition), Book No. A00058, L-\$40.00, M-\$32.00
 B31.1-TR-116 Suggested Rules for Operation, Maintenance, Modification, Replacement and Repair of ANSI B31.1 Power Piping Systems - Draft, Book No. A00083, L-\$3.50, M-\$2.80
 B31.2-1968 Fuel Gas Piping, Book No. A00036, L-\$5.00, M-\$4.00
 B31.3-1973 Petroleum Refinery Piping, Book No. A00037, L-\$20.00, M-\$16.00
 B31.3a-1975 Appendix E, Reference Standards, Book No. A00073, L-\$1.25, M-\$1.00
 B31.3b-1974 Summer 1974 Addenda to Petroleum Refinery Piping B31.3-1973, Book No. A00075, L-\$2.75, M-\$2.20
 B31.3c & d-1975 Addenda to Petroleum Refinery Piping, Book No. A00081, L-\$6.00, M-\$4.80
 B31.4-1974 Liquid Petroleum Transportation Piping Systems (Including 1975 Addenda), Book No. A00038, L-\$10.00, M-\$8.00
 B31.4a-1975 Referenced Standards Addenda, Book No. A00039, L-\$1.25, M-\$1.00
 B31.5-1974 Refrigeration Piping, Book No. A00040, L-\$9.50, M-\$7.60
 B31.7-1969 Nuclear Power Piping (Including 1971 and 1972 Addenda), Book No. A00042, L-\$19.00, M-\$15.20
 B31.7a-1972 Addenda only, Book No. A00053, L-\$1.25, M-\$1.00
 B31.7b-1971 Addenda only (Includes B31.7a-1971), Book No. A00043, L-\$4.25, M-\$3.40
 B31.7c-1971 Addenda only, Book No. A00044, L-\$4.25, M-\$3.40
 B31.8-1975 Gas Transmission and Distribution Piping Systems, Book No. A00045, L-\$15.00, M-\$12.00
 ASME Guide for Gas Transmission and Distribution Piping Systems—1976 Including all Addenda through December 1976 (See page SR-11—ASME Standards), Book No. A00030, L-\$100.00, M-\$80.00; Binder for Gas Guide, Book No. A00028, L-\$7.50, M-\$6.00

Surface Texture, Pipe, Gages, and Industrial Trucks

- B32.1-1952 (R 1972) Preferred Thickness for Uncoated, Thin, Flat Metals (Under 0.250 in.), Book No. L00025, L-\$2.25, M-\$1.80
 B32.2-1969 (R 1974) Preferred Diameters for Round Wire—0.500 inches and under, Book No. M00012, L-\$2.25, M-\$1.80
 B32.3-1974 Preferred Metric Thicknesses and Widths for Flat Metal Products, Book No. L00045, L-\$3.00, M-\$2.40
 B32.4-1974 Preferred Metric Sizes for Round, Square and Hexagon Metal Products, Book No. L00046, L-\$2.50, M-\$2.00
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 B36.19-1965 (R 1971) Stainless Steel Pipe, Book No. M00013, L-\$2.25, M-\$1.80
 B40.1-1974 Gauges: Pressure and Vacuum, Indicating Dial Type—Elastic Element, Book No. K00015, L-\$5.00, M-\$4.00
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 B47.1-1974 Gage Blanks, Book No. M00082, L-\$20.00, M-\$16.00
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 B73.2-1975 Specifications for Vertical In-Line Centrifugal Pumps for Chemical Process, Book No. J00049, L-\$4.50, M-\$3.60
 B88.1-1972 Guide for Dynamic Calibration of Pressure Transducers, Book No. L00042, L-\$5.00, M-\$4.00
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 B99.1-1973 Precision Inch Gage Blanks for Length Measurement (Thru 20 inches), Book No. L00044, L-\$5.00, M-\$4.00
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 B99.6.2-1973 Temperature and Humidity Environment for Dimensional Measurement, Book No. L00047, L-\$6.50, M-\$5.20

Cutting Tools, Holders, Drivers, Bushings and Punches

- B94.1-1969 (R 1975) Blanks and Semi-Finished Blanks for Solid Carbide Taps, Book No. M00055, Book No. L-\$2.75, M-\$2.20
 B94.2-1971 Reamers, Book No. L00028, L-\$6.75, M-\$5.40
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 B94.6-1968 (R 1972) Knurling, Book No. K00022, L-\$2.75, M-\$2.20
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 B94.9-1971 Taps—Cut and Ground Threads, Book No. K00043, L-\$6.75, M-\$5.40
 B94.10-1967 (R 1972) High-Speed Steel and Cast Non-Ferrous Single-Point Tools and Tool Holders, Book No. N00034, L-\$2.25, M-\$1.80
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 B94.12-1968 Carbide-Tipped Masonry Drills and Blanks for Carbide-Tipped Masonry Drills, Book No. L00013, L-\$2.25, M-\$1.80
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 B94.17-1968 (R 1975) Gages—Functional, Ball-Lock Punches, Die Buttons and Retainers, Book No. K00057, L-\$2.75, M-\$2.20
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 B94.19-1968 Milling Cutters and End Mills, Book No. L00008, L-\$6.50, M-\$5.20
 B94.20-1968 Specifications for Carbide Blanks for Twist Drills, Reamers, End Mills, and Random Rod, Book No. K00056, L-\$2.75, M-\$2.20
 B94.21-1968 (R 1974) Gear Shaper Cutters, Book No. J00007, L-\$4.50, M-\$3.60
 B94.22-1968 (R 1975) Punches—Variable, Head Type, Book No. L00041, L-\$4.25, M-\$3.40
 B94.23-1969 (R 1975) Punch Guide Bushings—Variable, Press Fit, Book No. L00040, L-\$3.25, M-\$2.60
 B94.24-1969 Heavy Duty Carbide Inserts for Cutting Tools, Book No. L00034, L-\$2.50, M-\$2.00
 B94.25-1975 Indexable Inserts for Cutting Tools, Book No. L00038, L-\$14.50, M-\$11.60
 B94.26-1969 Indexable (Throw-away) Inserts Holders, Book No. L00039, L-\$4.75, M-\$3.80
 B94.27-1970 (R 1976) Die Buttons—Basic Taper Relief, Press Fit, Book No. M00041, L-\$3.75, M-\$3.00
 B94.28-1970 (R 1976) Die Buttons—Basic Straight Relief, Press Fit, Book No. M00045, L-\$3.75, M-\$3.00
 B94.29-1970 (R 1976) Die Buttons—Basic Ball Lock, Book No. M00039, L-\$3.75, M-\$3.00
 B94.30-1970 (R 1976) Die Buttons—Variable, Press Fit, Book No. M00060, L-\$3.75, M-\$3.00
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- B94.33-1974 Jig Bushings, Book No. K00021, L-\$5.25, M-\$4.20
 B94.34-1946 (R 1971) Life Tests of Single Point Tools (Redesignation of B5.19-1946), Book No. L00001, L-\$2.25, M-\$1.80
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1974 ASME Boiler and Pressure Vessel Code

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Data Report Forms, samples of which are shown in the various Sections of the ASME Boiler and Pressure Vessel Code, may be obtained from the ASME Order Department in pads of 100 sheets each at a cost of \$6.00 per pad. Please order by Book Number which follows each title. No member discount.

- A1 Manufacturers' Data Report for Pressure Vessels (E00112)
 A-1A Manufacturers' Data Report for Pressure Vessels (Alternate Form for Single Chamber Completely Shop-Fabricated Vessels Only) (E00113)
 A-2 Manufacturers' Partial Data Report (A Part of a Pressure Vessel Fabricated by One Manufacturer for Another Manufacturer) (E00114)
 A-3 Manufacturers' Data Report Supplementary Sheet (E00119)
 C-1 Constructors' Data Report for Concrete Reactor Vessels and Containments (E00077)
 C-2 Fabricators' Data Report for Parts of Concrete Reactor Vessels and Containments as Required by the Provisions of the ASME Code, Section III, Division 2 (E00081)
 H-2 Manufacturers' Data Report for All Types of Boilers Except Water-Tube and Those Made of Cast Iron (E00101)
 H-3 Manufacturers' Data Report for Water-Tube Boilers (E00102)
 H-4 Manufacturers' Partial Data Report (E00103)
 H-5 Manufacturers' Master Data Report for Boilers Constructed from Cast Iron (E00041)
 HLW-6 Manufacturers' Report for Lined Water Heaters (E00105)
 HLW-7 Manufacturers' Partial Data Report for Lined Water Heaters (E00106)
 HLW-8 Manufacturers' Master Data Proof Test Report for Lined Water Heaters (E00107)
 N-1 Manufacturers' Data Report for Nuclear Vessels (E00038)
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 N-2 Manufacturers' Data Report for Nuclear Part and Appurtenances (E00040)
 N-3 Owners' Data Report for Nuclear Power Plant Components (E00024)
 N-5 Data Report for Field Installation of Nuclear Power Plant Components, Component Supports, and Appurtenances (E00025)
 N-6 Manufacturers' Data Report for Storage Tanks (E00054)
 N-7 Manufacturers' Data Report for Storage Tank Parts and Appurtenances (E00055)
 NCS-1 Designers' Data Report for Core Support Structures—Fabricated by Others (E00065)
 NCS-1A Fabricators' Data Report for Core Support Structures—Designed by Others (E00066)
 NCS-2 Manufacturers' Data Report for Core Support Structures (E00067)
 NCS-3 Manufacturers' Data Report for Core Support Structures, as Required by the Provisions of ASME Code Section III, Division 1 (E00078)
 NCS-4 Fabricators' Data Report for Core Support Structures and Related Parts for Appurtenances Designed by Others, as Required by the Provisions of ASME Code, Section III, Division 1 (Alternative to Form NCS-1A) (E00079)
 NF-1 Manufacturers' Data Report for Component Supports (E00075)
 NF-2 Manufacturers' Partial Data Report for Parts for Component Support (E00076)
 NIS-1 Owners' Data Report for Inservice Inspection (E00029)
 NM-1 Data Report for Tubular Products and Fittings Welded with Filler Metal (E00080)
 NMP-1 Fabricated Nuclear Piping (E00062)
 NPV-1 Manufacturers' Data Report for Nuclear Pumps or Valves (E00037)
 NR-1 Manufacturers' Data Report of Rupture Discs (E00026)
 NV-1 Manufacturers' Data Report for Safety and Safety Relief Valves (E00042)
 P-2 Manufacturers' Data Report for All Types of Boilers Except Water Tube (E00068)
 P-2A Manufacturers' Data Report for All Types Electric Boilers (E00120)
 P-3 Manufacturers' Data Report for Water-tube Boilers, Super-heaters, Waterwalls, and Economizers (E00069)
 P-3A Engineering—Contractor Data Report for a Complete Boiler Unit (E00070)
 P-4 Manufacturers' Partial Data Report (E00071)
 P-4A Manufacturers' Data Report for Fabricated Piping (E00072)
 P-5 Summary Data Report for Process Steam Generators (E00073)
 P-6 Manufacturers' Data Report Supplementary Sheet (E00074)

- QB-482 Recommended Form-Procedure Specification Applying to Ferrous and Nonferrous Materials and All Brazing Processes (E00031)
 QB-483 Recommended Form-Manufacturers' Record of Brazing Procedure Qualification Tests (E00032)
 QB-484 Recommended Form-Performance Specification and Manufacturers' Record of Brazer Qualification Test (E00033)
 QW-482 Welding Procedure Specification (WPS) (E00006)
 QW-483 Procedure Qualification Record (PQR) (E00007)
 QW-484 Manufacturers' Record of Welder or Welding Operator Qualification Tests (E00008)
 RP-1 Manufacturers' Data Report for Fiberglass-Reinforced Plastic Pressure Vessels (E00115)
 RP-2 Manufacturers' Partial Data Report (E00116)
 U-1 Manufacturers' Data Report for Pressure Vessels (E00108)
 U-1A Manufacturers' Data Report for Pressure Vessels (Alternate Form for Single Chamber Completely Shop-Fabricated Vessels Only) (E00117)
 U-2 Manufacturers' Partial Data Report (A Part of a Pressure Vessel Fabricated by One Manufacturer for Another) (E00110)
 U-3 Manufacturers' Certificate of Compliance Covering Pressure Vessels to be Stamped with the UM-Symbol (E00111)
 U-4 Manufacturers' Data Report Supplementary Sheet (E00118)

Other Titles of Interest to Boiler and Pressure Vessel Code Users

- Companies Holding Certificates of Authorization for Use of Code Symbol Stamps — 1976 Edition, (With Winter 1976 Supplement), Book No. E00052, L-\$35.00, M-\$28.00
 Companies Holding Nuclear Certificates of Authorization (One Year Subscription-bimonthly), Book No. E00061, L-\$45.00, M-\$36.00
 Criteria for Design of Elevated Temperature Class 1 Components in Section III, Division 1, of the ASME Boiler and Pressure Vessel Code, 1976, Book No. E00097, L-\$20.00, M-\$16.00
 Criteria of the ASME Boiler & Pressure Vessel Code for Design by Analysis Sections III & VIII, Div. 2, 1969, Book No. I00059, L-\$1.50, M-\$1.20
 History of the ASME Boiler Code, 1955, Book No. G00028, L-\$10.00, M-\$8.00
 Proposed Standard for Acoustic Emission Examinations During Application of Pressure, 1975, Book No. E00096, L-\$2.50, M-\$2.00
 Sample Analysis of a Piping System: Class 1 Nuclear, 1972, Book No. E00063, L-\$4.50, M-\$3.60

ASME CODES

Performance Test Codes

Test methods prescribed in the PTC's enable users to obtain accurate information on adaptability of equipment, best methods of operation, capacity and efficiency, and verification of manufacturer's guarantees. Each one contains a check list of items on which agreement should be reached before starting tests, specifies the instruments and testing apparatus needed, lists precautions, gives instructions for computing and tabulating results and shows how to correct results for deviations from specified test conditions.

The Performance Test Codes Committee is following a policy of submitting the PTC Documents to ANSI for approval as American National Standards. The documents that have been approved bear the ANSI/ASME designation. This PTC/ANSI relationship will reduce duplication of effort and promote the consensus standards concept.

| ANSI | ASME | |
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| PTC 1-1974 | PTC 1-1970 | General Instructions (With 1971 Addenda), Book No. C00017, L-\$5.00, M-\$4.00 |
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| Appendix to ANSI PTC 6-1974 | PTC 6A-1964 | (R 1973) Appendix A to Test Code for Steam Turbines (With 1968 Addenda), Book No. C00029, L-\$6.50, M-\$5.20 |
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